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Structural and optical studies of tin iron chromium nano oxides

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In the present study, we have synthesized Sn0.2Fe0.9Cr0.9O3 nano oxides. Single phase corundum -like structure and nanophase structure of the as-synthesized sample were confirmed by X-ray diffraction (XRD) and by transmission electron microscope (TEM). The results show that the produced powders have grain size of approximately 32 nm. Using the result of the UV-Vis spectrometer, we were able to determine the energy band gaps of 3.1 and 5.2 eV, when nanoparticles diluted in iron standard and in deionised water respectively.

Apply to be
br> considered for a student
 award (Yes / No)?

Nic

Level for award

- (Hons, MSc,

- PhD, N/A)?

N/A

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